PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: KIM, Inhan	A, Inhan		PCT			
5th floor, Daerim Bldg., 1695-4, Seoch Seoul 137-883 Republic of Korea	o-dong Seocho-gu		RITTEN OPINION OF T FIONAL SEARCHING A	RCHING AUTHORITY		
			(PCT Rule 43bis.1)			
·	·	Date of mailing (day/month/year)	06 JULY 2004 (06.07.2004	4)		
Applicant's or agent's file reference PCT204-0037		FOR FURTHER	ACTION See paragraph 2 below			
International application No. PCT/KR2004/000560	International filing date (16 MARCH 2004 (• • •	Priority date(day/month) 17 MARCH 2003 (17.03			
International Patent Classification (IPC) IPC7 H01L 21/66 Applicant	or both national classificat	tion and IPC				
PHICOM CORPORATION et	al					
Box No. IV Lack of unity of X Box No. V Reasoned stater citations and ex Box No. VI Certain documed Box No. VII Certain defects Box No. VIII Certain observa 2. FURTHER ACTION If a demand for international preliminal International Preliminary Examining other than this one to be the IPEA and opinions of this International Searching If this opinion is, as provided above, or IPEA a written reply together, where a	nent of opinion with regard of invention ment under Rule 43bis. I(a planations supporting such ents cited is in the international applications on the international applications on the international at ary examination is made, the chosen IPEA has noting Authority ("IPEA") except the chosen IPEA has noting Authority will not be so considered to be a written cappropriate, with amendments.	I to novelty, inventive (i) with regard to not a statement cation application this opinion will be considered. considered.	ply where the applicant chood Bureau under Rule 66.1bise the applicant is invited to su ation of 3 months from the o	inion of the oses an Authority (b) that written		
of Form PCT/ISA/220 or before the ex For further options, see Form PCT/IS/	xpiration of 22 months from	m the priority date, w	hichever expires later.			
3. For further details, see notes to Form l	PCT/ISA/220.					

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/000560

Box	No. I	Basis of this opinion					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/000560

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1	-10	YES
	Claims N	IONE	NO NO
Inventive step (IS)	Claims 4	-5,8-10	YES
	Claims 1	-3,6-7	NO
Industrial applicability (IA)	Claims 1	-10	YES
	Claims N	IONE	NO

2. Citations and explanations:

The invention relates to a probe contactor with a bent portion in the middle section of the probe contactor and a method of making the same.

Following documents have been cited in the International Search Report:

D1: KR 89-4245 Y1 (In-Chul Yoon) 26 June 1989

D2: JP 60-247487 A (NIPPON DENKI KK) 07 December 1985 D3: US5811751 A (Tony P. Leong, et al.) 22 September 1998

- 1. D1 discloses an automatic bonding apparatus comprising a table base, a table, wafer holder, bonding arms, a motor, and controller.
- 2. D2 discloses a wire bonding apparatus with a laser source.
- 3. D3 disclose a probe station comprising a base machine, a chuck, a probe platen, a microscope, and a single laser.

The invention claimed in claims 1-10 is considered to be novel and industrial applicable.

Claims 1-3 and 6-7 are considered to be lack of inventive step over the admitted prior arts of combination of D1-D3. However, the documents D1-D3 does not suggest the special feature of a controllable fixed part for a probe and a bonding method. Claims 4-5 and 8-10 are considered to have inventive steps.